

**IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANTS: Olivier Theytaz, Francis Pilloud and Pascal Eichenberger  
SERIAL NO.: 10/033,427  
FILING DATE: December 27, 2001  
TITLE: An Optical Based Performance Improvement Illumination  
Configuration  
EXAMINER: Leonid Shapiro  
GROUP ART UNIT: 2629  
ATTY. DKT. NO.: 19414-06075 US

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**EXAMINER INTERVIEW SUMMARY UNDER 37 CFR § 1.133(b)**

Sir:

**I. INTERVIEW SUMMARY**

Applicants' representatives, Rajiv P. Patel and Deepti Panchawagh-Jain conducted an Examiner Interview with Examiner Leonid Shapiro on August 28, 2006. This Interview Summary is submitted pursuant to 37 CFR § 1.133(b) and includes the substance of the interview between Applicants' representatives and Examiner.

**Claim, Drawings/Specification Support and References Reviewed**

Applicants thank the Examiner for his time in conducting the telephone interview on August 28, 2006. During the telephone interview, Applicants' attorneys and the Examiner discussed claim 1 and the outstanding rejection under 35 U.S.C. § 103(a) in light of the

combination of U.S. Patent No. 6, 531,692 to Adan et al. (Adan) and U.S. Patent No. 6,476,987 to Kleinschmidt et al. (Kleinschmidt).

The interview includes a discussion of the claimed feature of:

a lens having an entrance surface and an exit surface, the entrance surface positioned to gather the light from the light source and the exit surface directing the light onto the target surface, the entrance surface structured with a curvature to refractively shape the gathered light and angled at a second angle different than the first angle to refract the gathered light towards the exit surface, the exit surface structured with a curvature to further refractively shape the gathered light and angled at a third angle different from the second angle to refract the gathered light to illuminate the target surface, the lens further configured to traverse light between the entrance surface and exit surface without total internal reflection.

Support for this claimed feature was discussed relative to FIG. 1A and the corresponding written description. Per that discussion, Applicants agreed to amend FIG. 1A (and appropriately the specification) to explicitly illustrate the angles discussed. Applicants also agreed to reference the specification showing support for the proposed amendment to the drawings.

In addition, agreement was reached during the interview that the cited references do not disclose claimed features. In particular, Adan does not disclose second and third angles as are recited. In addition, Adan discloses a system with total internal reflection (see FIG. 5 of Adan) rather than without it. Further, the amendments now appear to make reference to Kleinschmidt moot. Finally, Applicants also agreed to incorporate into claims 25 and 27 a feature corresponding to the lens further configured to traverse light between the entrance surface and exit surface without total internal reflection.

### **Conclusion**

Applicants invite Examiner to contact Applicants representative to discuss any part of this Interview Summary or any other aspect of this application to help further prosecution of the same.

Respectfully Submitted,  
Olivier Theytaz et al.

Date: August 29, 2006

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